



Steelpoortdrift Vanadium Project

Investor Presentation

November 2022

ASX:VR8

WWW.VR8.GLOBAL



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All financial outcomes as reported in this announcement are done so on a 100% project basis. VR8 currently holds 73.95%² ownership in the Steelpoortdrift project.

Competent Person Statement, Previously Reported Information & Cautionary Statement

The information in the referenced in this presentation that relates to Exploration Results, including the Mineral Resources contained within the Production Target (and forecast financial information derived from the production targets) at the Steelpoortdrift project has previously been released to the ASX. Refer to ASX announcements released on 21 May 2018 titled “Exploration on High Grade Pipes Commences At SPD Vanadium Project”, 23 September 2020 titled “Scoping Study Confirms Viability of V2O5 Production”, 4 October 2022 titled “DFS Delivers A\$1.9BN NPV Confirming World Class Steelpoortdrift Vanadium Project” and 4 October 2022 titled VR8 updates Mineral Resources and Ore Reserve. The Company confirms that it is not aware of any information or data that materially affects the information included in the market announcement, and that all material assumptions and technical parameters underpinning the announcement continue to apply. The Company confirms that the form and context in which the Competent Person’s findings are presented have not been materially modified from the original market announcements referred to above.

Mineral Resources

The Company confirms it is not aware of any new information or data that materially affects the information included in the 4 October 2022 (VR8 updated mineral resource and ore reserve for the Steelpoortdrift Vanadium Project) Vanadium Resource estimate and all material assumptions and technical parameters underpinning the estimate continue to apply and have not materially changed when referring to its resource announcement made on 04 October 2022. The Company confirms that the form and context in which the Competent Person’s findings are presented have not been materially modified from the original market announcements.

Ore Reserves

The Company confirms that it is not aware of any new information or data that materially affects the information included in the Ore Reserves Statement and that all material assumptions and technical parameters underpinning the estimates in the Ore Reserves Statement continue to apply and have not materially changed. The Information that has been presented in this report has been extracted from the announcement dated 04 October 2022 (VR8 updated mineral resource and ore reserve for the Steelpoortdrift Vanadium Project). The Company confirms that the form and context in which the Competent Person’s findings are presented have not been materially modified from the original market announcements.

Cautionary Statement LR 5.16.4

There is a low level of geological confidence associated with the inferred mineral resources and there is no certainty that further exploration work will result in the determination of indicated mineral resources or that production target itself will be realised.



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Emerging Vanadium Producer



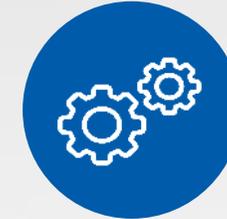
One of the world's largest and highest-grade vanadium deposits



DFS indicates strong financial outcomes with post-tax NPV_{7.5%} of A\$1.9Bn (A\$1.4Bn att.), 42% IRR & potential to increase ownership



Ore body easy to mine, low strip ratio & low operating cost



Using conventional / proven concentrate & Salt Roast Leach ("SRL") processes to produce 12kt to 18.5kt V₂O₅ flake per annum



Mining license granted



Established major mining & smelting jurisdiction



Located in a major industrial region with established infrastructure – existing operating plants, power and water, proven road & rail options to port



Experienced management team



Corporate Structure (ASX: VR8) – as at 14 November 2022

474.8m

Shares on issue
(undiluted)

A\$0.066

Share Price

A\$31.3m

Market Cap (@
\$0.066c)

A\$1.9m

Cash
(As at 30 Sept 2022)

11.9m

Performance Rights
(7.9m Class A & 4m Class B)



Top Shareholders

		%
1	Danterne Pty Ltd ¹	9.5%
2	Raubex Pty Ltd	9.3%
3	Romfal Sifat Pty Ltd	4.2%
4	Ndarama Investments (Private) Ltd	3.5%
5	Davy Corp Pty Ltd ²	2.9%
Top 20 Shareholders		48.4%

¹ Mr Jurie Hendrik Wessels (Executive Chairman) is a director and shareholder of Danterne Pty Ltd

² Mr Michael Davy (Non-Executive Director) is the sole director and shareholder of Davy Corp Pty Ltd





JURIE WESSELS
Executive Chairman

Jurie Wessels has 26 years' experience in the exploration industry and co-founded a number of exploration and mining companies, including Bauba Resources Ltd (BAU.J), which owns three operating chrome mines, GoldStone Resources Ltd (GRL.L), which company is mining the Homase-Akrokerrri Gold Mine in Ghana acquired and developed by GoldStone when Jurie was CEO, Arcadia Minerals Ltd (AM7.ASX), which company owns an advanced Tantalum project, the Bitterwasser Lithium Clay and Brine Projects and tier 1 exploration assets, and Vanadium Resources Ltd. Jurie has significant experience in the sourcing and assessment of exploration and exploitation projects and in the governance, funding and management of resource companies. He explored for various minerals in Africa, South America, the Indian sub-continent and Europe, and explored and developed several mining projects to successful conclusion.



EUGENE NEL
Chief Executive Officer

Eugene Nel has 25 years' experience as a metallurgical and process engineer in the operations, management, design and optimisation of mineral beneficiation in Africa, South America, Europe and the Middle East. He has been involved in a number of successful mining and processing operations and has assisted client teams throughout project lifecycles and disciplines. As a registered Pr. Tech. Eng. with the Engineering Council of South Africa, as well as member of the Southern African Institute of Mining and Metallurgy and Mine Metallurgical Managers Association of South Africa, he qualifies as a competent person under JORC.



MICHAEL DAVY
Non-Executive Director

Michael Davy is an Australian executive and Accountant with over 18 years' experience across a range of industries. Michael previously held a senior management role in Australia for Songa Offshore (listed Norwegian Oil and Gas drilling company), where he assisted with the start-up of the Australian operations and managed the finance team for a two rig operation with multi-hundred million dollar revenues. Prior to that he worked in Australia and London for other large organisations overseeing various finance functions. Michael is currently a director and owner of a number of successful private businesses all under his personal management. During the past five years Michael has held directorships in several ASX listed companies and is currently the Non-Executive Chairman of Raiden Resources Limited (ASX: RDN) and Haranga Resources Ltd (ASX:HAR) and is a non-executive director of Arcadia Minerals Ltd (ASX:AM7).



JOHN CIGANEK
Non-Executive Director

John Ciganek has worked in the mining sector for more than 30 years. His experience spans working in mining operations, project finance, M&A and the equity capital markets. John is a Mining Engineer and holds an MBA. He has experience in a range of roles covering mining engineering, operations, business development, research and corporate finance. John is currently an executive director and founder of Euclase, which is a corporate finance advisory and investment firm included providing financing and structuring advice, as well as arranging debt and equity financings for capital intensive projects. John is a Non-Executive Director of Calidus Resources Limited (CAI.ASX) and Ookami Limited (OOK.ASX).



In the last 12 months VR8 has delivered important de-risking milestones for Steelpoortdrift



DFS completed on-time and on budget – providing validation for the development of the Steelpoortdrift Project



Revised Mineral Resource and Ore Reserve estimate with enhanced block model and 183-year life of resource



Acquired SRL Site located 15km from Steelpoortdrift Mine Site



Government approval and increased interest in VanRes to 74% (up from 50%)



Raised funding at a premium from the Raubex Group Ltd, a global infrastructure development, materials supply and mining services group



Continued discussions with range of potential off-takers and strategic investors



Appointed HCF International Advisers as debt finance advisors



Joint Development Agreement with DRA Global to develop a renewable energy supply solution



Listed as a Critical Mineral in Australia and the US, Vanadium demand is expected to grow significantly from its energy storage capabilities

Vanadium Redox Flow Batteries (VRFB's)

- VRFBs forecast to represent between 15 – 25% of total battery capacity
- Significant advantages available over counterparts, particularly in the storage and grid-relief capacities with further development upside



Easily scalable – additional capacity easy to build in by adding more storage tanks



Sustainable – vanadium can be fully reused or recycled at end of battery lifespan



20+ year lifespan – zero degradation over time with battery life twice that of lithium



Reliable – no performance loss in harsh conditions and 100% depth of discharge available



Safety – non-flammable, non-toxic, water based battery that is safer than alternatives



Efficient – lower emissions and lower associated energy costs than alternative technologies



Dalian Flow Battery Energy Storage Peak-shaving Power Station

A world-leading Vanadium Redox Flow Battery facility was recently switched on in China, with Stage 1 providing a capacity of 100MW / 400MWh. Stage 2 will double this capacity.

Steel & Alloys

- Over 90% of the current demand for vanadium arises from its use to strengthen steel and alloys
- The performance benefit in strengthening steel has seen demand grow and imminent construction regulation changes in China to mandate higher quality Rebar is expected to drive further growth
- Development of strong, lightweight alloys has seen vanadium incorporated to a large range of products including jet engines, 3D printing and tools
 - Boeing's fleet of 787's and A350's include up to 100tons of light weight vanadium alloys

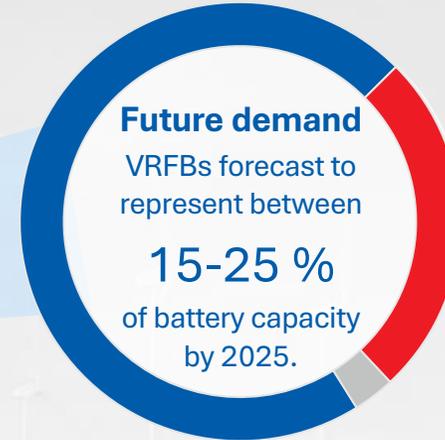


Global Demand Forecast

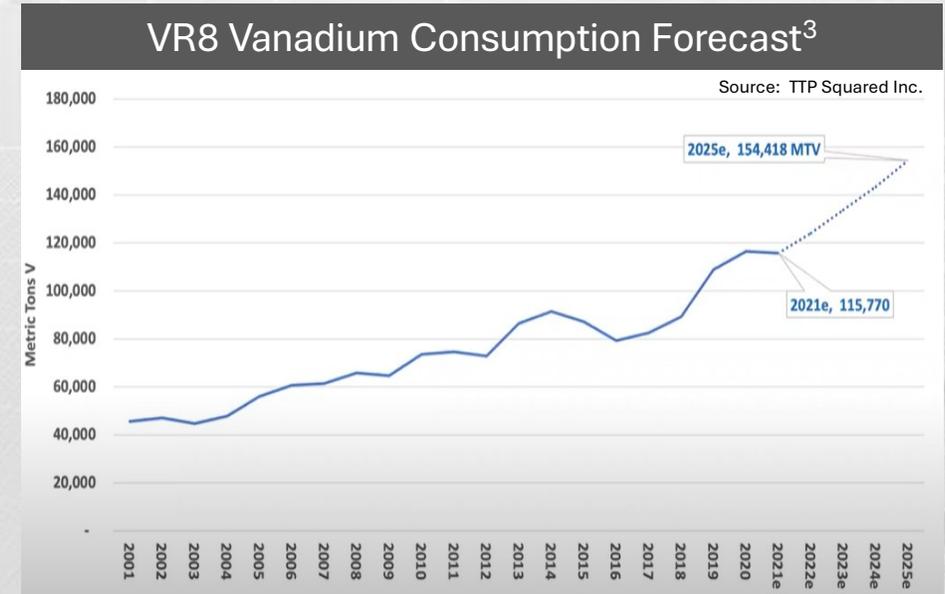
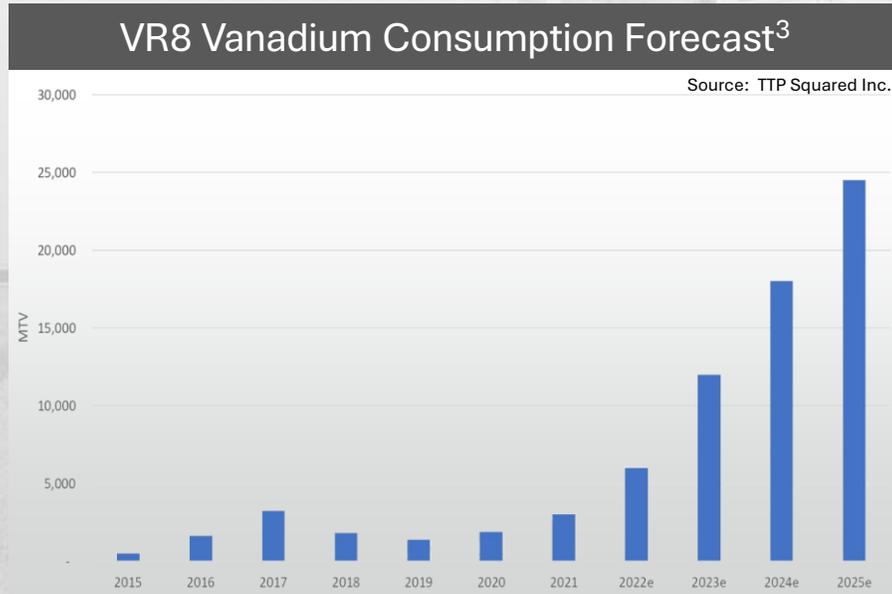


Forecasters expect over **1,200GW** of battery capacity to be added between today and 2050, with approximately 600GW before 2025.¹

- Steel: 90%
- VRFB's: 3-5%
- Aerospace: 3%



Could add up to **10,000mtV** of demand into an already undersupplied market.²



¹ BloombergNEF, New Energy Outlook 2018; International Energy Agency, World Energy Outlook 2018

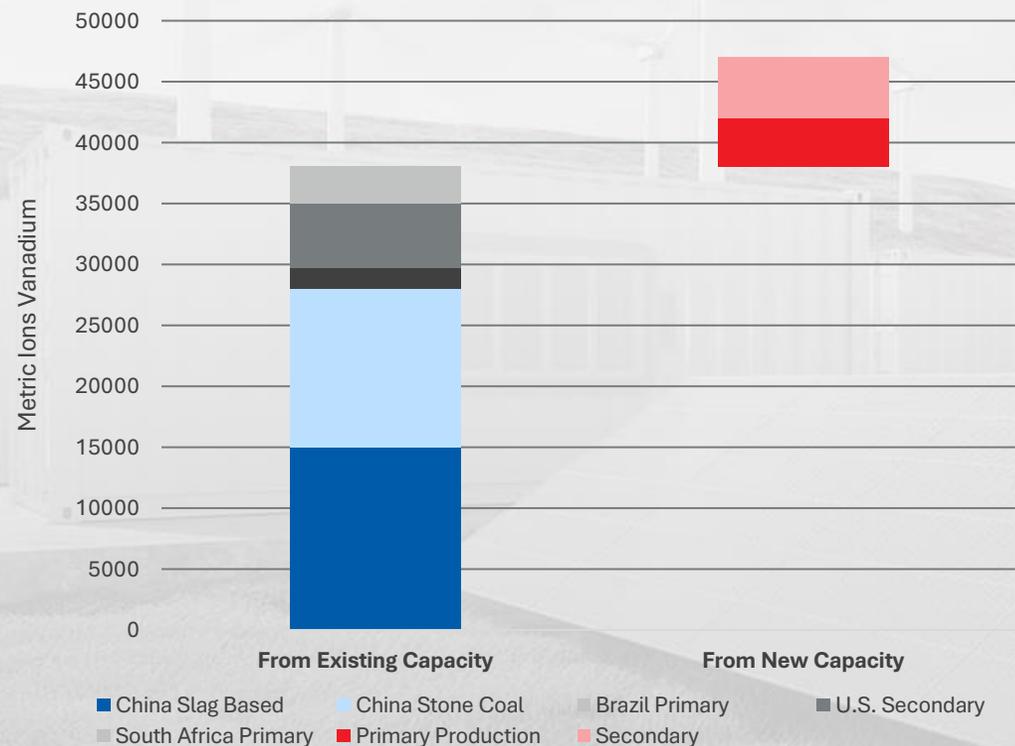
² Noack et. al, 2016. Techno-economic modelling of RFB Systems (Energies 2016, 9, 627) Vanadium Flow Batteries: An In Depth Analysis. EPRI, Palo Alto, CA: 2007.1014836

³ Source: TTP Squared, Inc.



New Capacity Potential

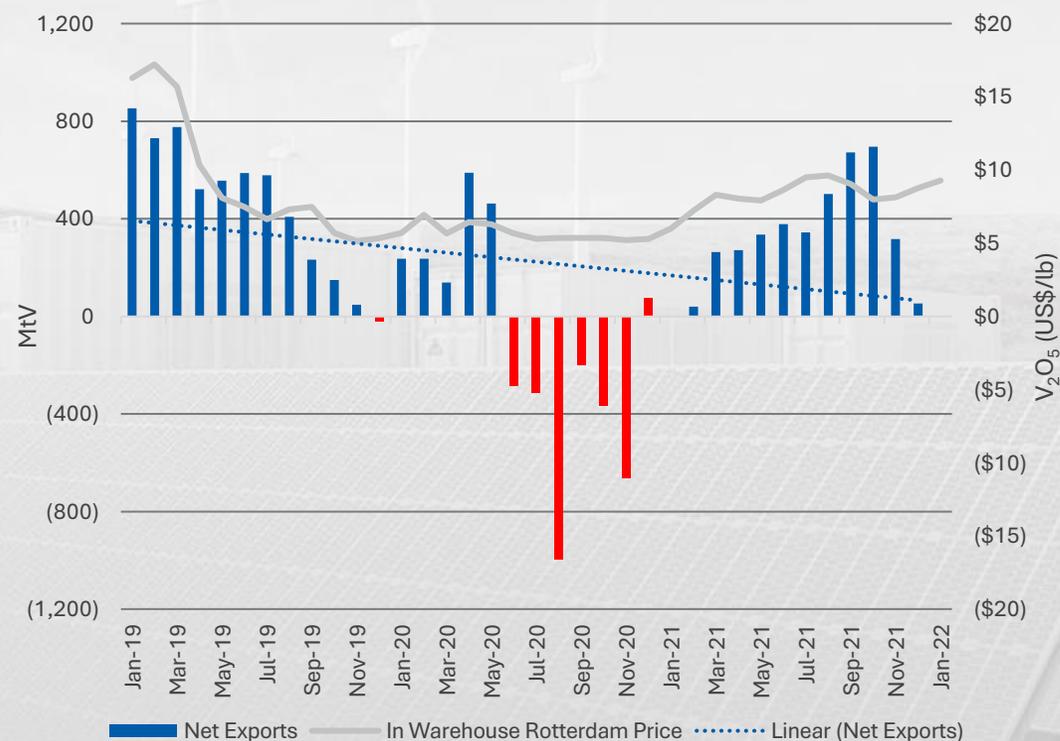
Production Expansion between 2020-2025



Source: TTP Squared Inc.

China as a net importer of Vanadium?

China Monthly Net Vanadium Exports

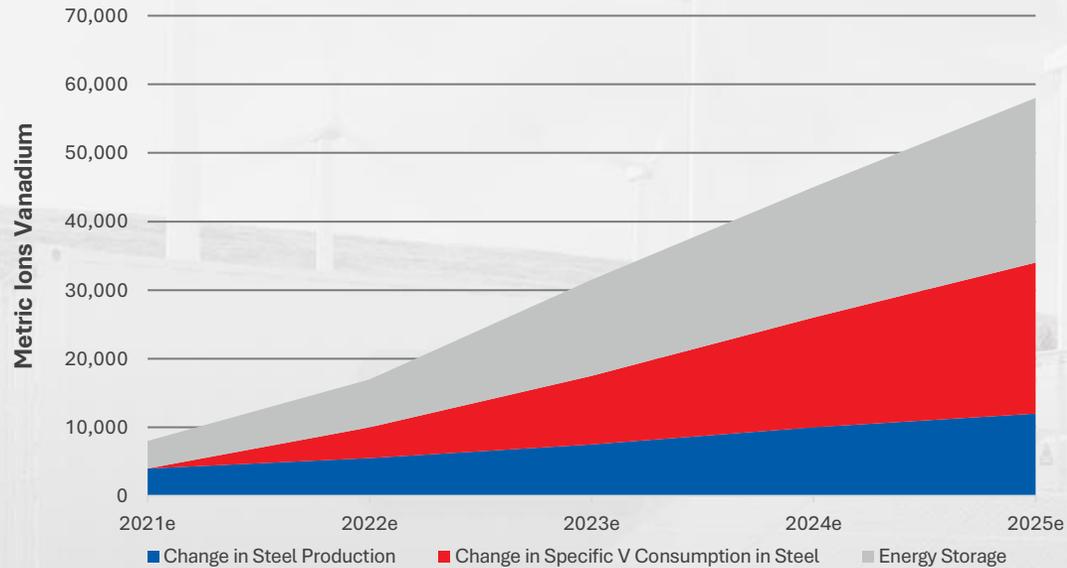


Source: China Iron & Steel Research Institute, Metal Bulletin publication

V₂O₅ Price Dynamics

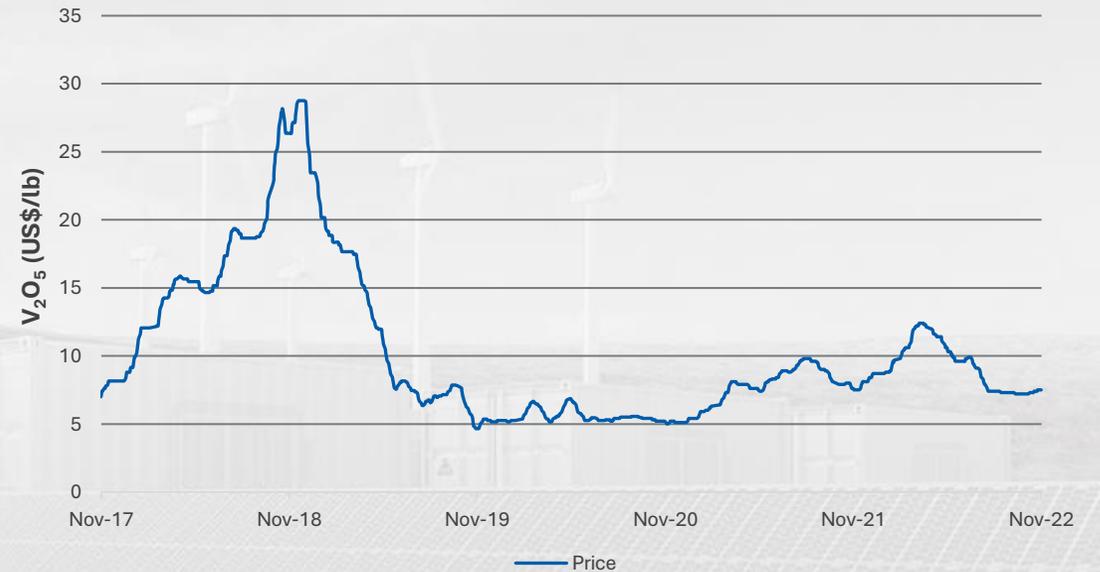


Projection of potential MtV demand change 2020-2025



Source: TTP Squared Inc.

Vanadium Pentoxide 98% min Europe US\$/lb



Source: Investing.com



Vanadium Pentoxide Flake¹



Vanadium Metal Lumps¹



Vanadium Crystals¹

¹ These images are not visual results from the Company – they are provided only to provide visual examples of Vanadium in various forms.

Location – in the Bushveld Complex



This world-renowned mining location is host to several mining operations, multiple major mining companies are active in the area, and is in close proximity to existing infrastructure.

Other Mines in the Bushveld Complex



Vametco – Vanadium Mine
Mokopane – Vanadium Project



Rhovan – Vanadium Mine
Lion Smelter - Ferrochrome



Twefontein – Ferrochrome Mine



Twickenham – PGE Mine



Modikwa – PGE Mine



Marikana – PGE Mine

Regional Infrastructure in the Bushveld Complex



Eskom Substation
12km away



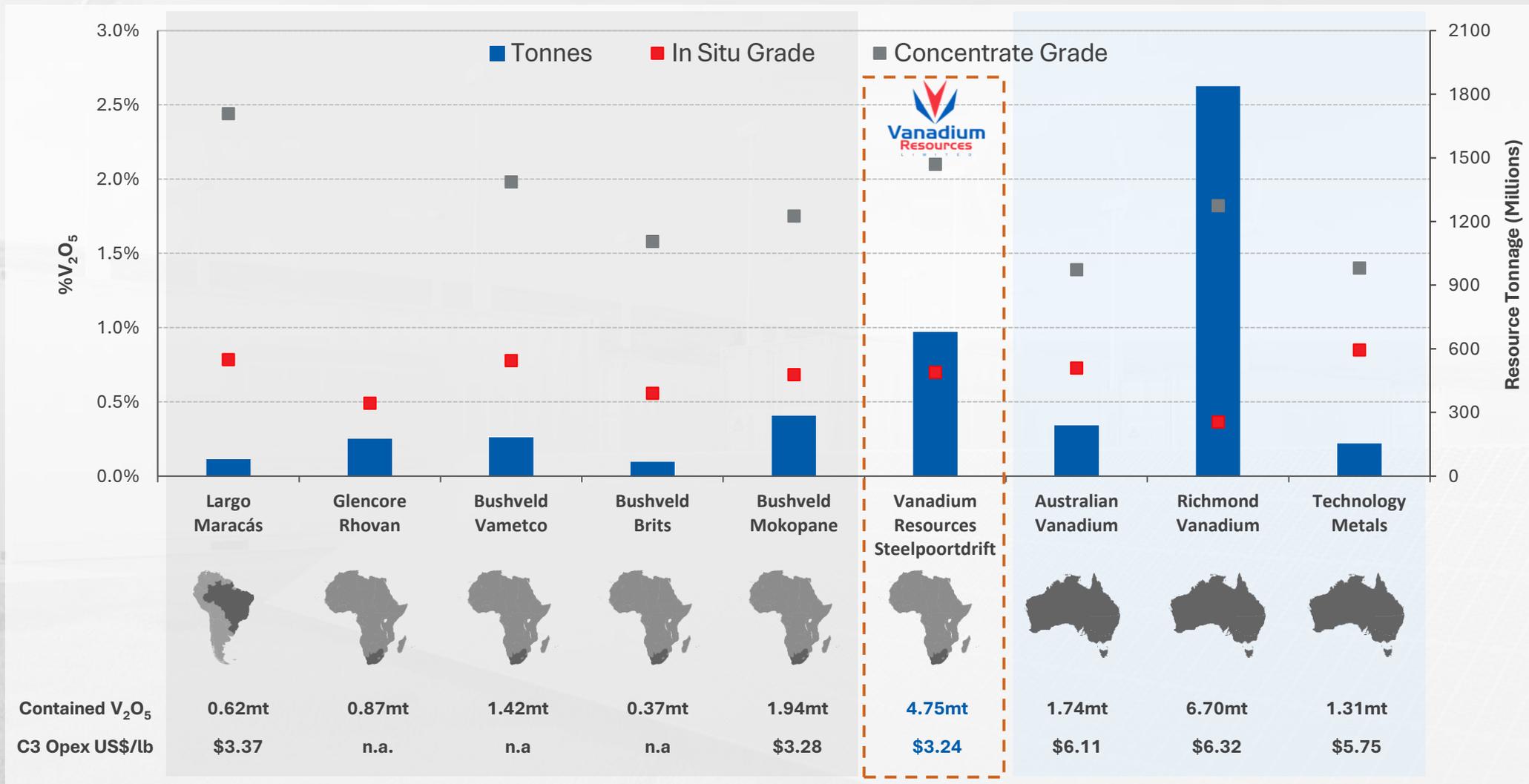
De Hoop Dam
15km away



Rail Siding
30km away



Global Primary Resources



The above chart compares Resources reported under different codes and companies at different stages of development as detailed in ASX Announcement titled "Scoping Study Confirms Viability of V₂O₅ Production", 23 September 2020 (pages 13-14). Only Resources with a quoted in situ grade > 0.40% V₂O₅ are shown in the figure. Please refer to the annexure "Peer Comparison Table" attached to this presentation.

DFS Delivers World Class Vanadium Project



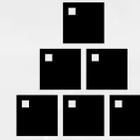
A\$1.9bn
(US\$1.21bn)

NPV_{7.5%} (post-tax)



A\$1.4bn
(US\$896m)

Attributable NPV



A\$237m
(US\$152m)

Yearly Free Cashflows



42%

IRR (post-tax)



27 months

Payback



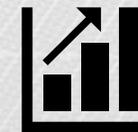
US\$211m
(A\$329m)
Incl. Contingency

Start up Capex



US\$3.24

C3 Opex V₂O₅/lb



US\$9.50
(Deloitte forward mid-range)

Price per V₂O₅/lb

¹ Refer ASX Announcement dated 4 October 2022 "DFS Delivers A\$1.9BN NPV Confirming World Class Steelpoortdrift Vanadium Project"



- Cash Flows attributable only to V_2O_5 flake sales
- Opportunity to incorporate titanium dioxide concentrate production and other potential ore credits
- Additional life of up to 67 years available in the designed open pits within a low environmental and social impact inclusion zone
- Life of Mineral Resource is +180 years at current throughput rates
- 96% of 25-year LOM classified as Proven and Probable Ore Reserves
- Pilot plant test work yielded an average global recovery (concentrator plus SRL plant recovery to final flake) of 82.4%
- Final flake product grades of +98.0% V_2O_5 with the potential to produce a >99.0% V_2O_5 product using conventional SRL process
- Renewable energy solar power plant expected to reduce carbon emissions and carbon tax by 34%
- A number of initiatives have been identified during the DFS to further increase the Resource, improve costs and processing efficiencies, including:
 - target drilling areas for further expanding the Mineral Resource
 - ropeway conveyor system to transport concentrate from mine to SRL plant
 - removal of community and water course constraints on Mineral Resource and associated LOM
 - residual vanadium recovery
 - titanium in SRL tailings recovery

DFS Study Team and Contributors



- Sound Mining – geological modelling, Resource estimate, pit optimisation, Ore Reserve estimate and economic assessment
- SPH Kundalila – mining equipment and costing
- Nurizon Consulting – near surface geotechnical studies and TSF design
- Red Kite – environmental and hydrology
- UMS METS – concentrator plant
- Consulmet Metals – SRL plant
- DRA Projects – PV solar plant
- Minopex – operational readiness
- Deloitte – market assessment



Resources & Ore Reserves



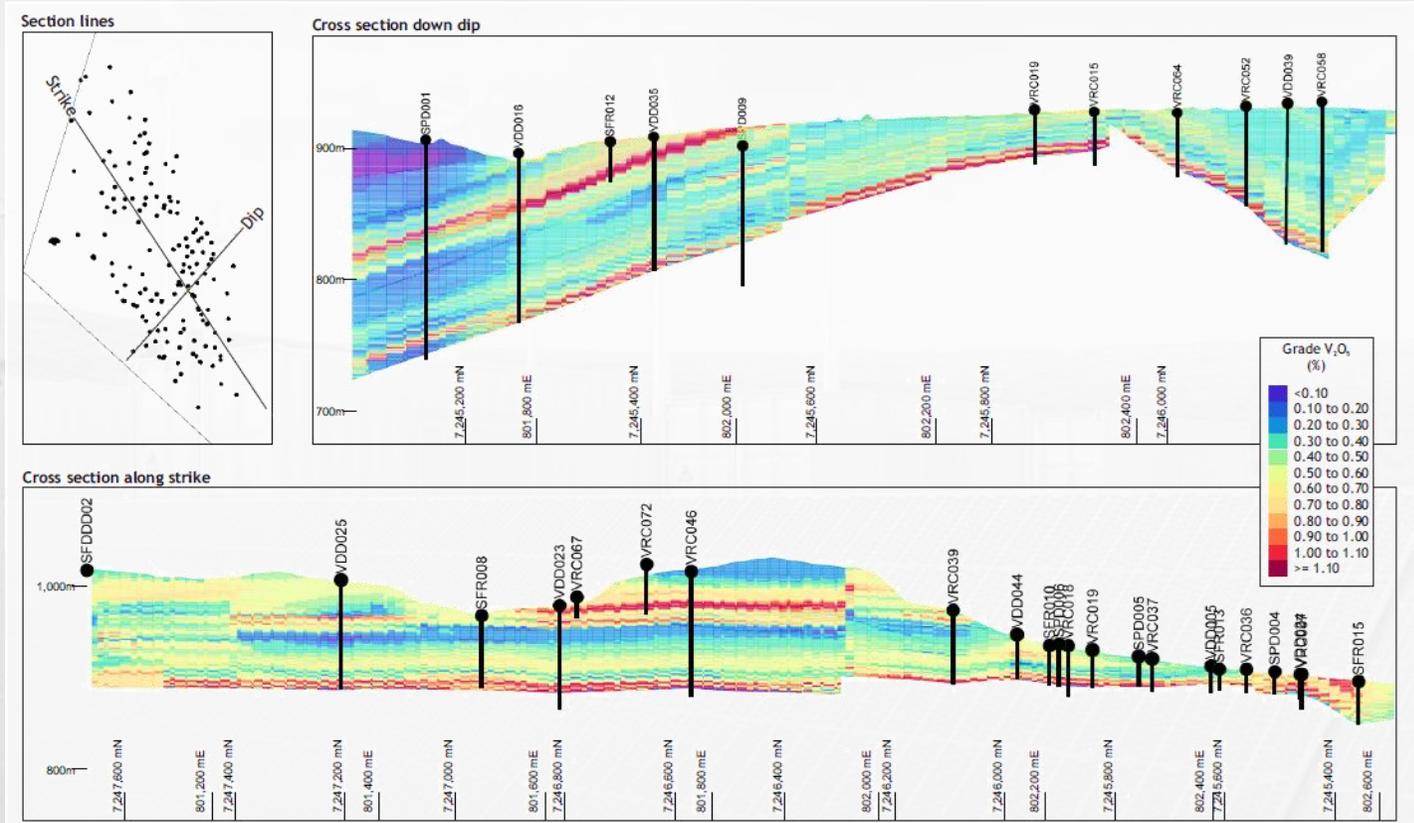
- Global Mineral Resource of 680Mt at 0.70% V₂O₅
- Total Ore Reserve of 77Mt at 0.72% V₂O₅
- Mineralisation outcrops at surface and dips shallowly (~10°) – less waste to mine, low strip ratios (0.88x waste : ore) and cheaper mining cost
- Orebody able to achieve a high-grade concentrate of greater than 2% V₂O₅

Mineral Resource^{1&2}

Mineral Resource Category	Tonnage (Mt)	V ₂ O ₅ (%)	Fe ₂ O (%)	Contained V ₂ O ₅ (Mt)
Measured	145.5	0.72	22.47	1.05
Indicated	327.3	0.70	22.80	2.29
Inferred	207.4	0.68	22.90	1.40
Total / Average	680.1	0.70	22.76	4.74

Ore Reserve¹

Ore Reserve Category	Tonnage (Mt)	V ₂ O ₅ (%)	Contained V ₂ O ₅ (Mt)	Tonnage by Category (%)
Proved	30.2	0.70	213.09	39.3%
Probable	46.6	0.72	337.32	60.7%
Total / Average	76.8	0.72	550.41	100.0%

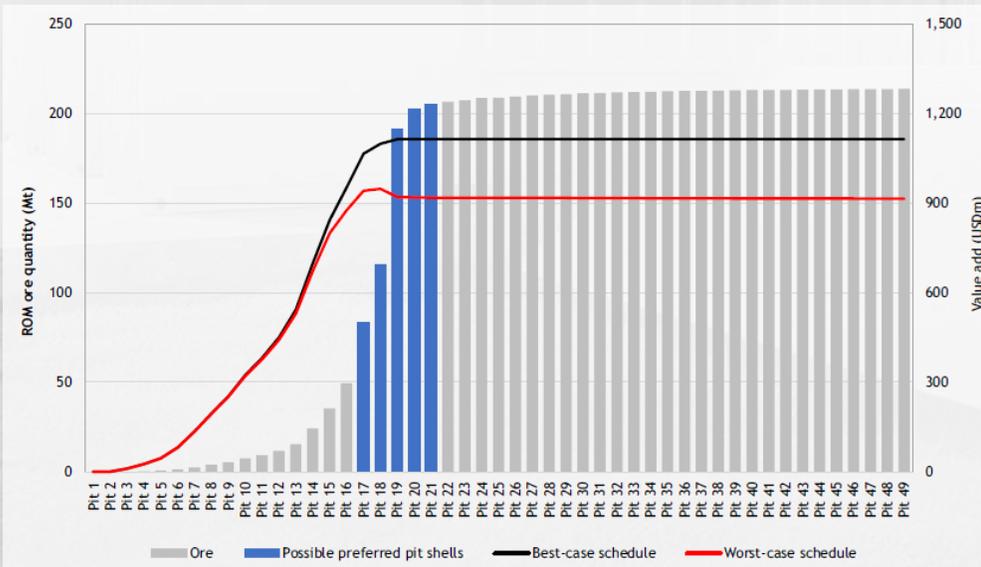


1. Refer ASX Announcement dated 4 October 2022 "DFS Delivers A\$1.9BN NPV Confirming World Class Steelpoortdrift Vanadium Project"
 2. Source: Sound Mining CPR (2022). Notes: V₂O₅ cut off >= 0.45%, tonnage rounded down to nearest 10,000t and metal content to nearest 1,000t

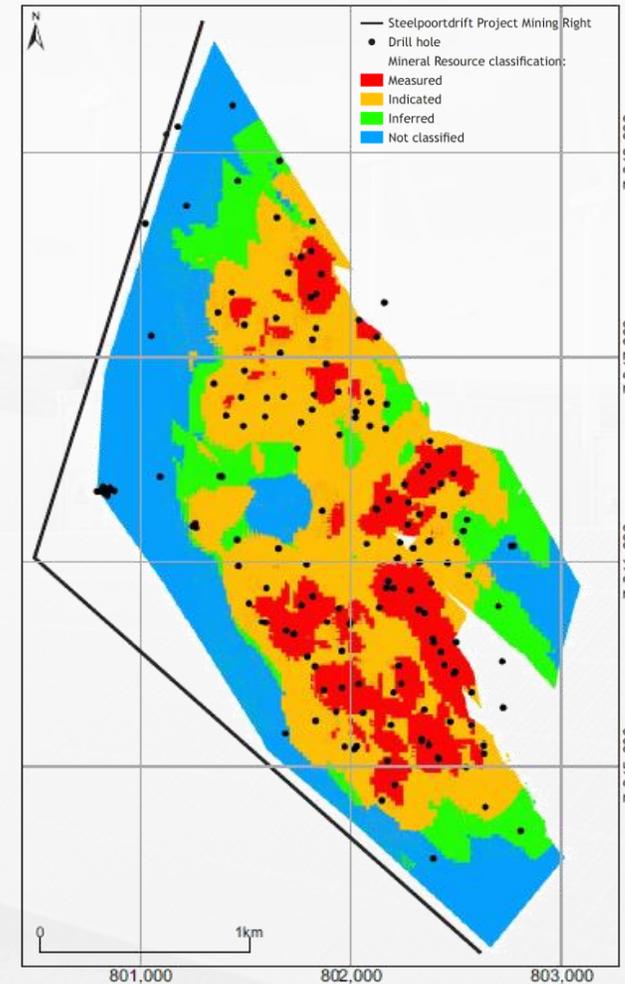
Location of Mineral Resources & Ore Reserves



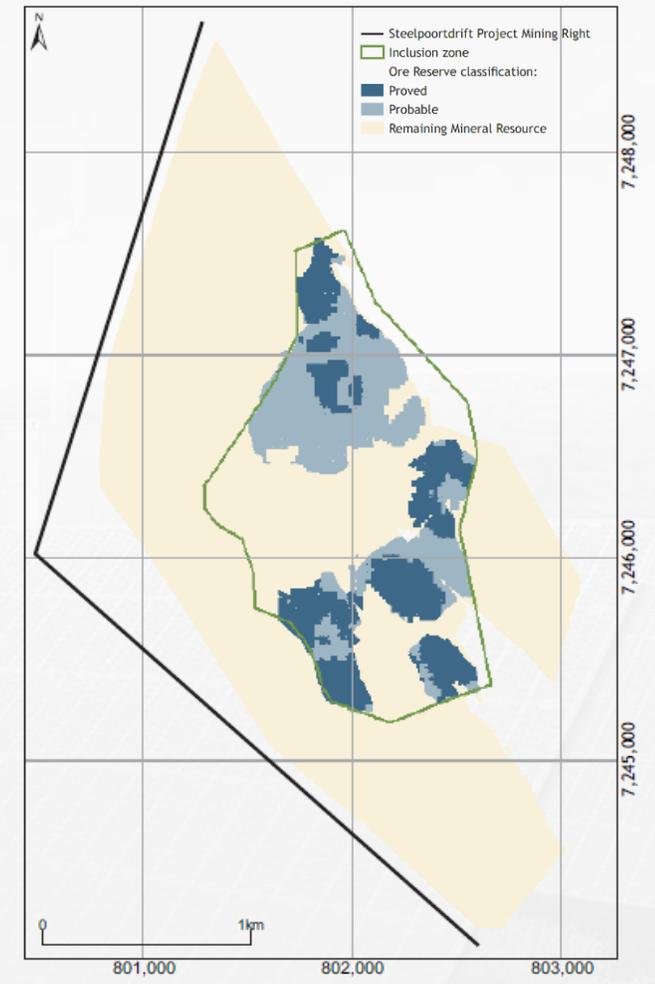
- The final pit design and Ore Reserves based on LOM of 25 years (designed to match Mining Right term)
- Final pit design was based on Pit 17, which highlights potential for a larger ultimate pit design
- Ore Reserves represents 12% of Mineral Resources and highlights the substantial scale of the project
- Based on a ROM ore production rate of 3.5Mtpa, the project would have a mine of over 180 years
- Potential opportunity to increase Resources and Reserves with infill drilling within “Not Classified” zones



Location and classification of Mineral Resources



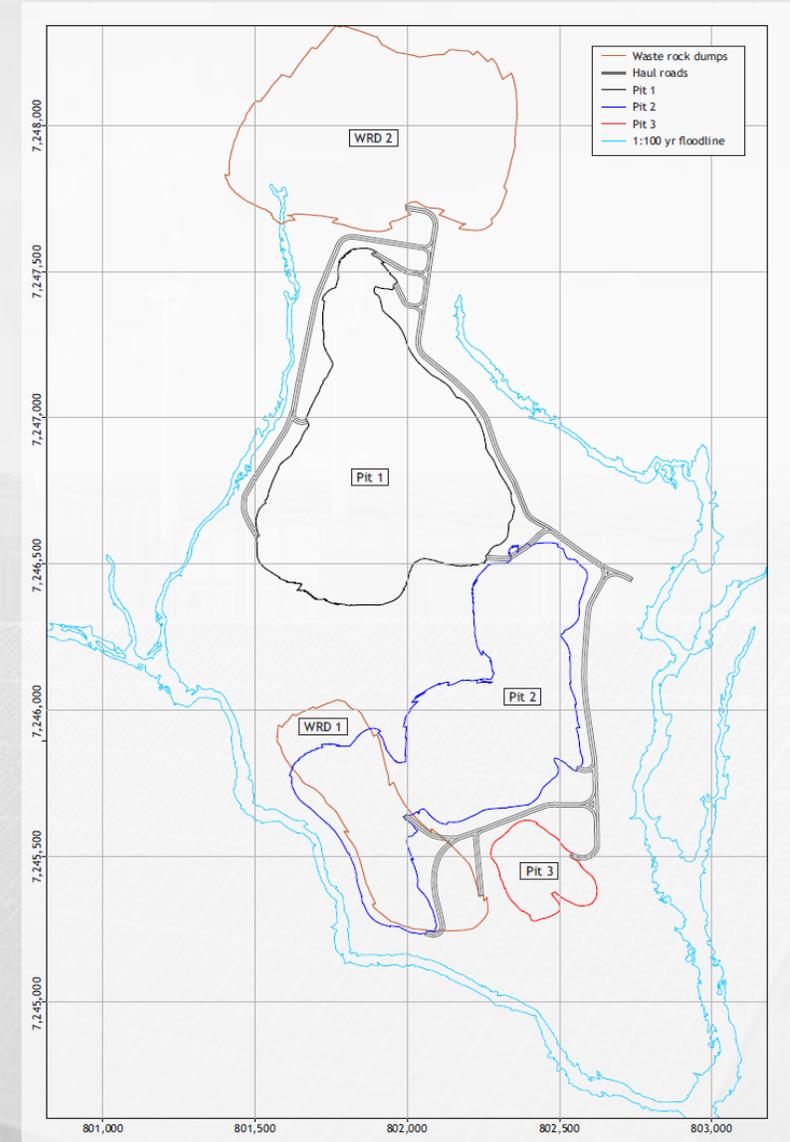
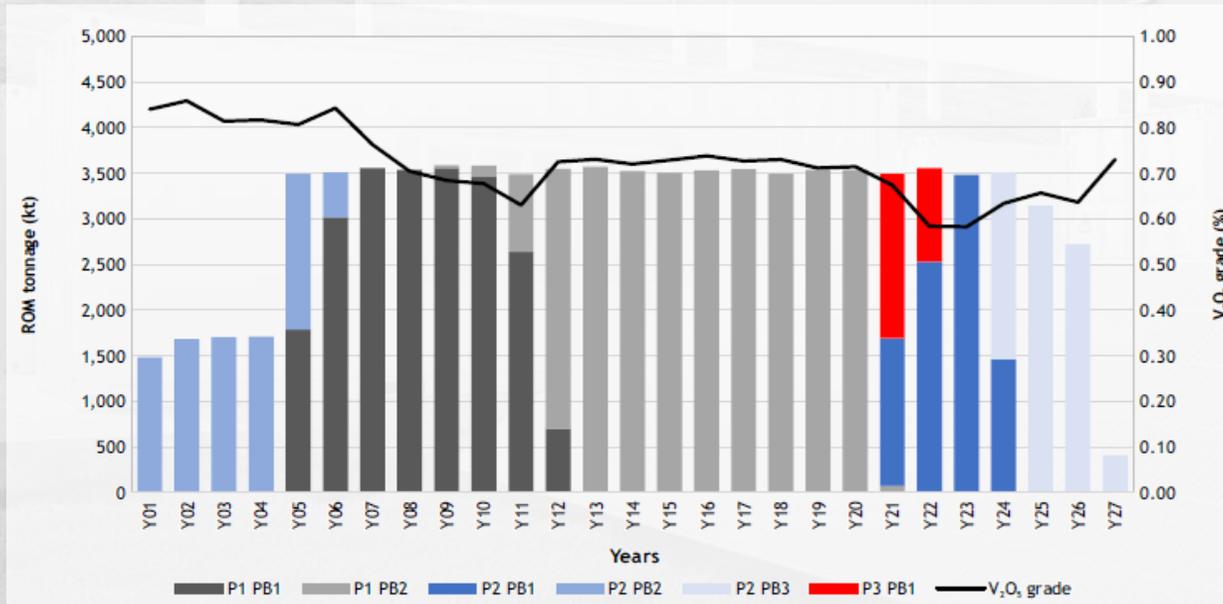
Location and classification of Ore Reserves



Open Pit Design and Schedule



- Detailed pit designs have been developed across three open pits and scheduled over the 25-year life of the project
- The mining schedule was able to achieve high ROM grades of greater than 0.80% V_2O_5 for the first 8 years, with a LOM average grade of 0.71% V_2O_5



Mine, Concentrator & SRL

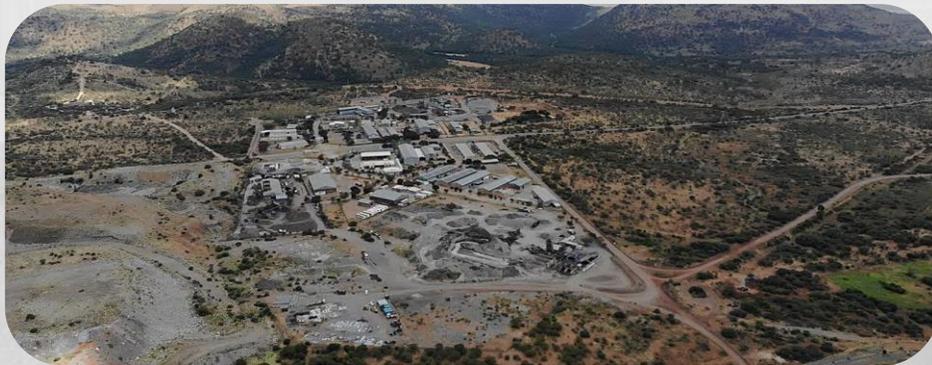


Mine Site – View of the North of Mining Area

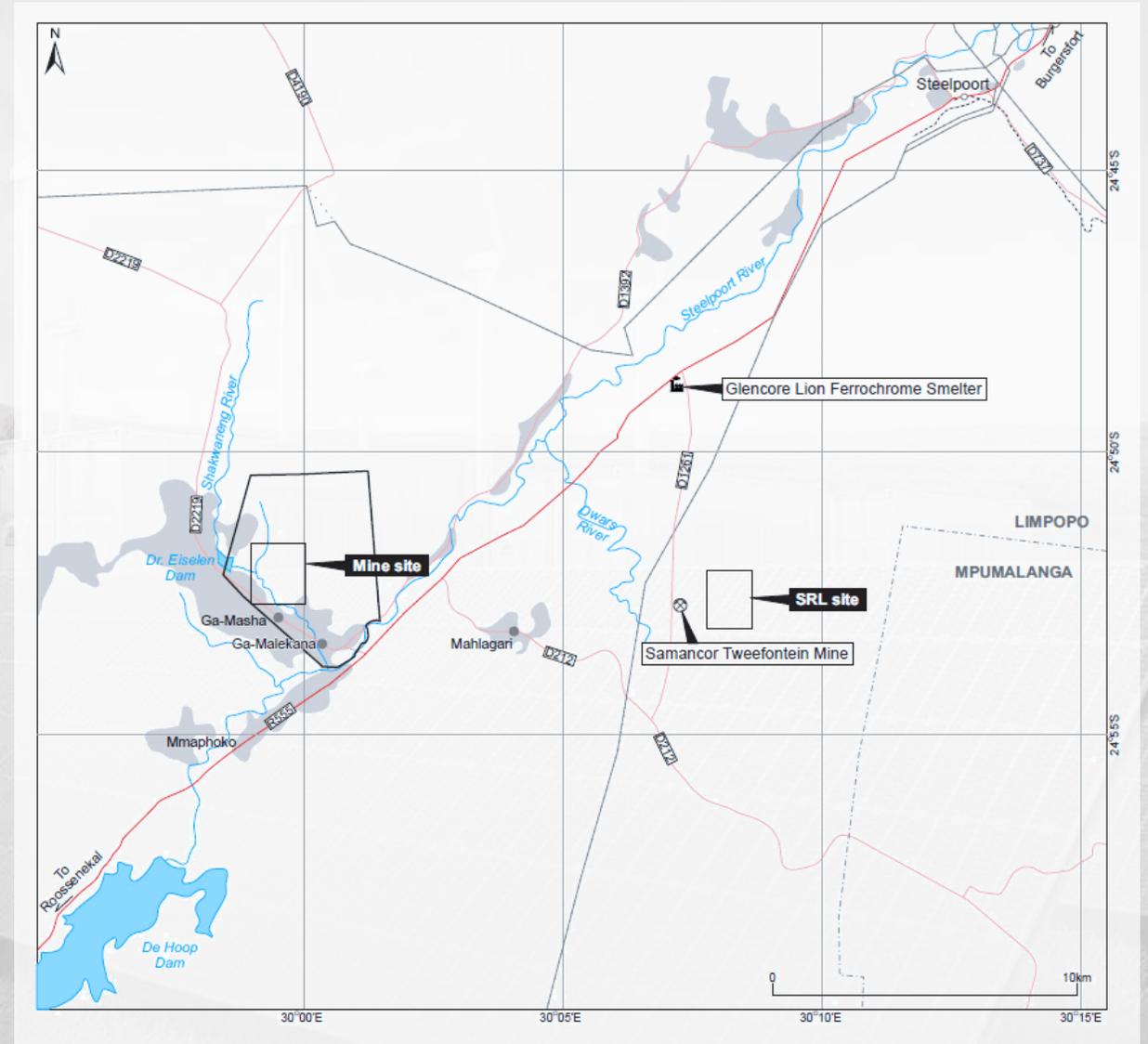


The mine site, concentrator and SRL sites are located within a substantial mining and smelting district, with well established infrastructure (including water, power, sealed roads, rail, etc)

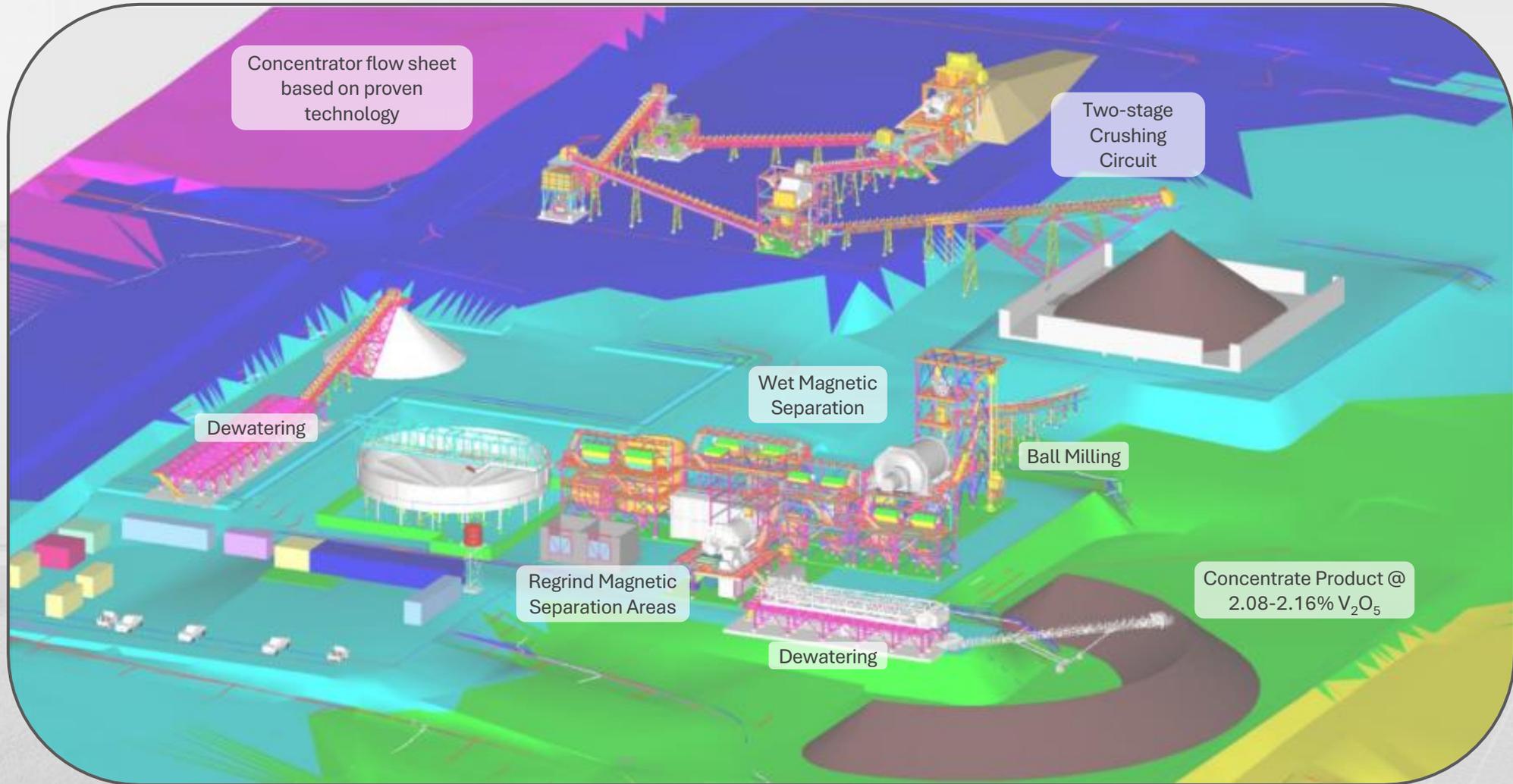
VR8 Offices and Warehouses in Steelpoort Industrial Park



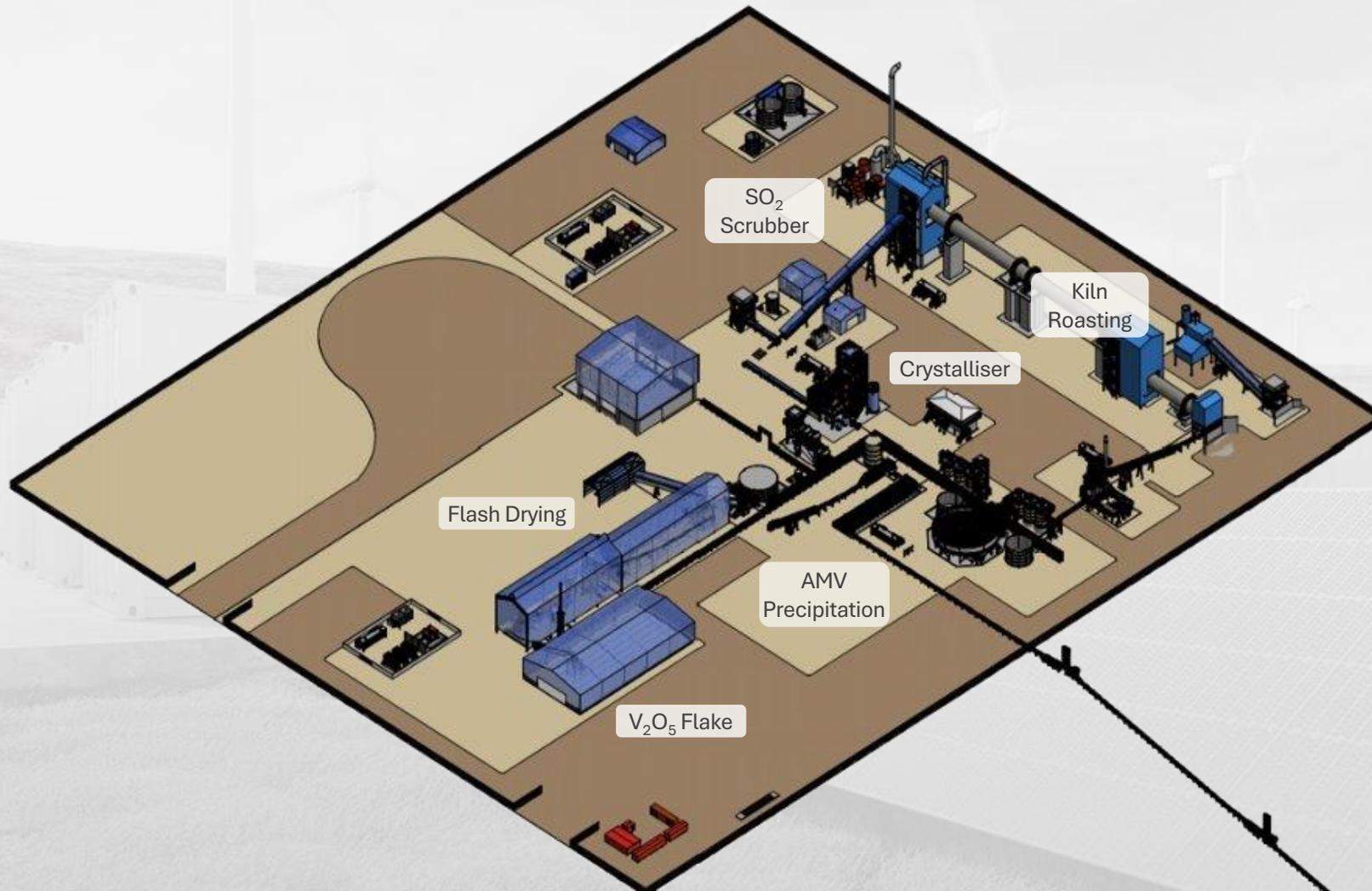
VR8 administration offices, core shed, main laboratory and SRL site is located within the Steelpoort Industrial Park



Concentrator Plant



Concentrator Plant



SRL flow sheet based on proven technology

SRL Plant comprises kiln roasting, desilification, ammonium metavanadate (“AMV”) precipitation, flash drying and V₂O₅ flake production

Concentrate feed rate of 790ktpa with a grade of >2.00% V₂O₅ to produce ~13.2ktpa of vanadium flake of >98% V₂O₅

Evaporation and crystallisation to recover Na₂SO₄ crystals for recirculation to the kiln has also been included



Renewable electricity supply

Inclusion of PV solar plant reduces carbon footprint and reliance on grid-based electricity

Electrification of mining fleet further reduces carbon footprint

Prove value in use for VRFB generated supply



Dry deposition of tailings

Dewatering of tailings material means reduced risk exposure from conventional tailings deposition methodologies



Co-products

Studies underway to unlock value from other metals contained in the ore body most notably Titanium and Iron which would also reduce tailings footprint



Community

Initiatives to maximize community involvement and benefits including implementation of Social Labour Plans, upgrading of area infrastructure and community-based procurement systems

Peer Comparison



	Largo Maracas ¹ In Production (Results as at 30 Dec 2021)	Steelpoortdrift (VR8) ² DFS Stage	Bushveld Mokopane ³ PFS Stage	TMT Project ⁴ DFS Stage	AVL Project ⁵ BFS stage	Richmond Vanadium ⁶ PFS Stage
V ₂ O ₅ Price	US\$7.89/lb	US\$9.50/lb	US\$7.50/lb	US\$10.50/lb	US\$10.50/lb	US\$9.60/lb
Market Cap (undiluted) (As at 14 Nov 2022)	A\$479M (C\$425M)	A\$31M (Undiluted) % Att. NPV – 2.2%	n.a. (Vametco in production)	A\$73M (Undiluted) % NPV – 13%	A\$124M (Undiluted) % NPV – 24%	n.a. (Pre-IPO process)
NPV (Post Tax)	NPV₇ A\$2.9B	NPV_{7.5} A\$1.9B (Att. A\$1.4B)	NPV₉ A\$344M	NPV₈ A\$560M	NPV_{7.5} A\$507M	NPV₁₀ A\$613M
IRR (Post Tax)	47.8%	42%	20.3%	18.5%	20.6%	38%
LOM	20 years	25 years	30 years	25 years	25 years	25 years
Plant Feed	1.5-5.0mtpa	1.6-3.5mtpa	1.5-1.8mtpa	1.7-2.3mtpa	1,5-1.9mtpa	4.1mtpa
Production (V ₂ O ₅)	11,000-12,000tpa	12,000-21,000tpa	9,525tpa	12,500tpa	11,200tpa	12,700tpa
Capex	US\$241M (at startup 2014/5)	US\$211M (11ktpa) US\$183M (from cash flow)	US\$298M	US\$423M	US\$435M	US\$176.8
C3 Opex US\$/lb	\$3.37 (excl. royalties)	\$3.24	\$3.28	\$5.75	\$6.11	\$6.32

¹ Largo Inc Technical report for PFS: <https://www.largoinc.com/Our-business/marac-s-menchen-mine/default.aspx>

² ASX 4 October 2022 "DFS Delivers A\$1.9BN NPV Confirming World Class Steelpoortdrift Vanadium Project"

³ Bushveld Minerals <http://www.bushveldminerals.com/wp-content/uploads/2017/08/201602040458050.pdf>

⁴ TMT Integration Study & DFS Announcement: <https://www.tmtlimited.com.au/sites/default/files/asx-announcements/6941650.pdf>

⁵ Australian Vanadium Bankable Feasibility Study <https://www.australianvanadium.com.au/wp-content/uploads/2022/04/AVL-Bankable-Feasibility-Study-final.pdf>

⁶ Richmond Vanadium Prospectus / Horizon Metals PFS : https://horizonminerals.com.au/wp-content/uploads/2022/03/2022-03-22-Lilyvale-PFS_DFS-Update_FINAL.pdf



Commenced process toward securing binding offtake, strategic investment and project financing

Offtake Agreement & Strategic Investment

- A process is underway with a range of international traders and downstream users of vanadium
- In parallel, a process is underway with a range of potential strategic investors with respect to potential equity investment and/or financing for construction funding
- Targeting a combination of both steel and VRFB offtake agreements with a view to taking advantage of the projected increasing demand for VRFB's
- The rationale for the process is to optimise value to VR8 by securing offtake and strategic investment terms that will support project financing of Steelpoortdrift

Project Financing

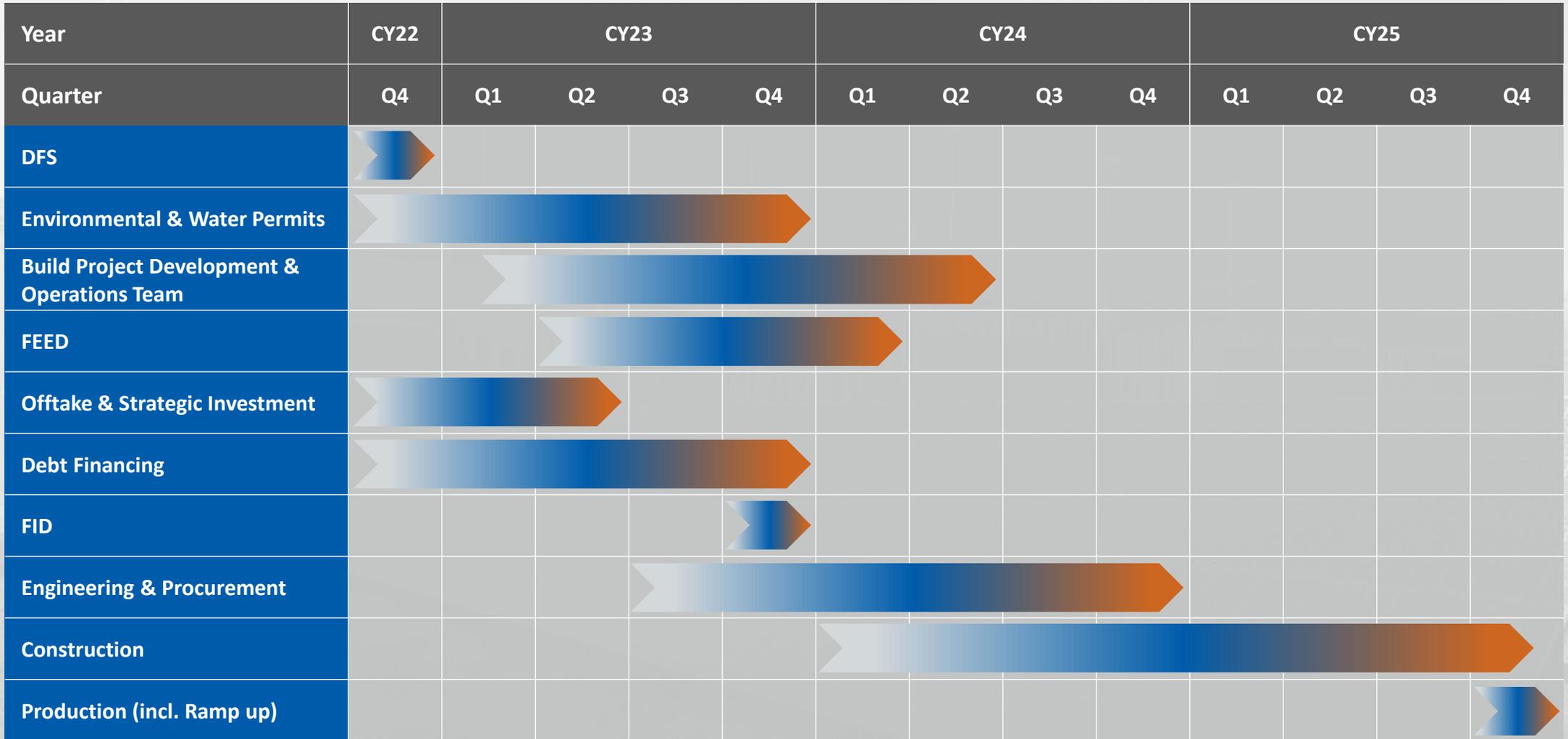
- Indicative debt sizing analysis received from several potential debt financiers / advisors
- Steelpoortdrift has the potential to support ~60% debt gearing of the total funding requirement
- Discussions with potential debt financiers have commenced with a view to securing indicative terms sheets in the lead up to the completion of the Steelpoortdrift BFS



Hand specimen of vanadiferous titanomagnetite from the SPD Vanadium Project¹

¹ Refer ASX Announcement dated 21 May 2018 "Exploration On High Grade Pipes Commences At SPD Vanadium Project"

Preliminary Project Timeline

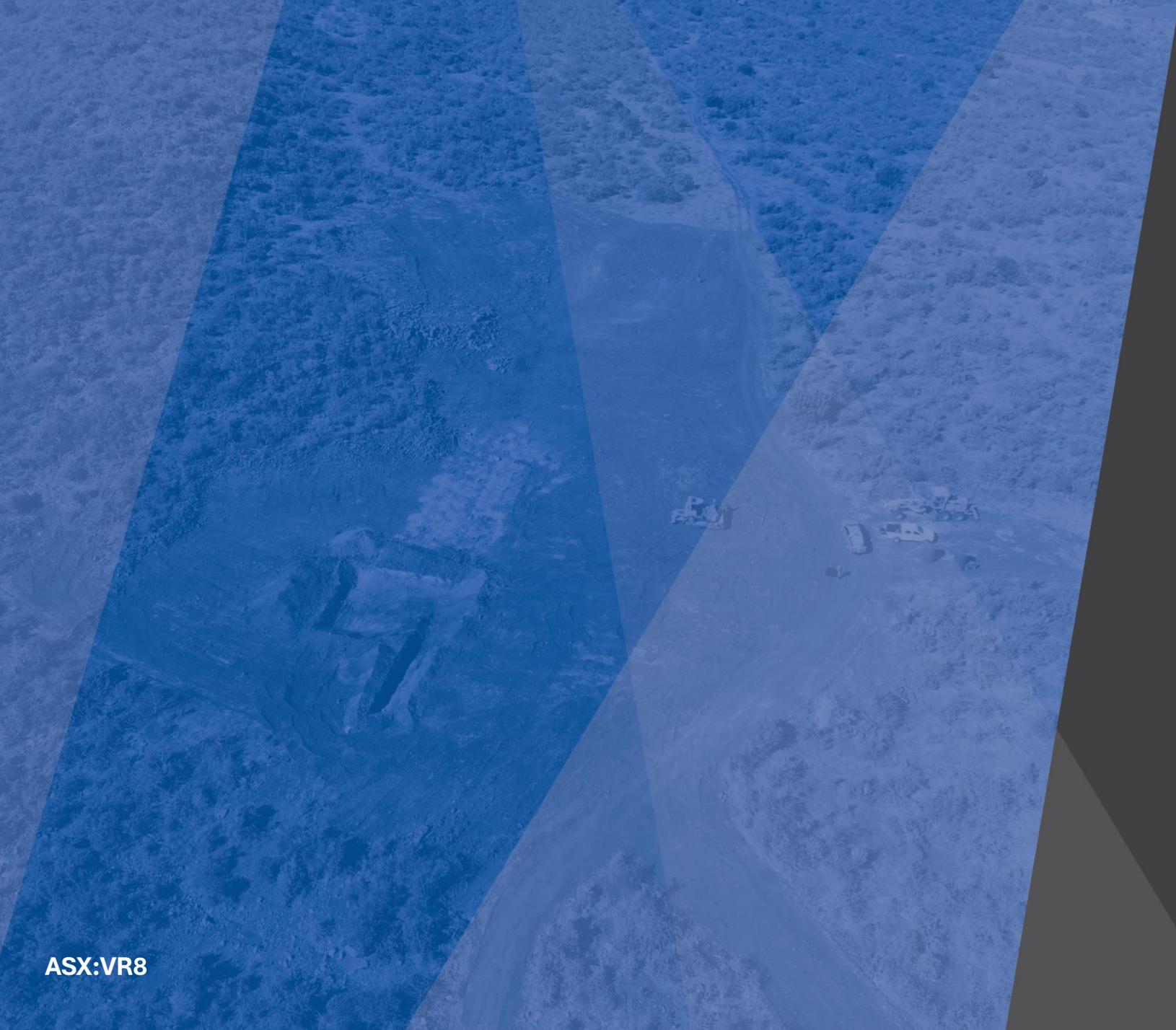




- ✓ Strong financials with attributable NPV of A\$1.4bn, IRR of 42% and payback period of 27 months
- ✓ Competitive Capex (US\$211m) and lowest quartile Opex (C3 cost US\$3.24/lb)
- ✓ Long life project with excellent production profile – 25 years at an average of 19.4ktpa
- ✓ Established mining jurisdiction with significant infrastructure and expertise nearby
- ✓ Debt advisors appointed, positive engagement and discussions advancing with banks and other financial institutions
- ➔ Significant upside potential with a range of opportunities and initiatives identified to increase value
- ➔ Building a strong project development and execution team
- ➔ Securing offtake and strategic equity
- ➔ Securing debt financing
- ➔ Targeting first concentrate and flake production in mid 2025

Unlocking Steelpoortdrift as one of the world's largest and highest-grade Vanadium projects for a new era





**Vanadium
Resources**
L I M I T E D

Appendix

November 2022

ASX:VR8

WWW.VR8.GLOBAL

Peer Comparison Table



Company	Code	Project	Stage	Resource Category	Resource Tonnes	Resource Grade	Concentrate Grade	Information Source
Largo	LGO.TSX	Maracas	Production	Measured, Indicated & Inferred (43-101)	79.2	0.99	2.45	43-101 Technical Report dated 10/10//2021 largoresources.com/operations/maracas-menchen-mine https://www.largoinc.com/news/news-details/2022/Largo-Reports-2021
Bushveld	BMN.LSE	Vametco	Production	Indicated & Inferred	183	0.78	1.98	Competent Persons' Report on the Vametco Vanadium Mine Jan 2020 https://www.bushveldminerals.com/technical-reports/
		Mokopane	Development	Indicated & Inferred	298	0.68	1.75	Mokopane PFS Study Report Jan 2016 bushveldminerals.com/technical-reports/
		Britts	Exploration	Indicated & Inferred	67	0.56	1.58	Competent Persons' Report on the Brits Vanadium Project Jan 2020 https://www.bushveldminerals.com/technical-reports/
Vanadium Resources	VR8.ASX	Steelpoortdrift	Development	Measured, Indicated & Inferred	680.1	0.70	2.10	ASX Announcement 04/10/2022
TNG	TNG.ASX	Mt Peake	Development	Measured, Indicated & Inferred	160	0.28	1.20	ASX Announcement 26/03/2013
King River	KRR.ASX	Speewah	Development	Measured, Indicated & Inferred	4,712	0.30	2.11	ASX Announcement 02/11/2018 21/03/2018
Pursuit	PUR.ASX	Koitelainen Vosa	Development	Inferred	116.4	0.28	2.25	ASX Announcement 06/02/2019
		Airijoki	Development	Inferred	44.3	0.40	1.70	ASX Announcement 08/03/2019
Australian Vanadium	AVL.ASX	Australian Vanadium Project	Development	Measured, Indicated & Inferred	208.2	0.74	1.39	ASX Announcement 04/03/2020, 17/03/2020
Technology Metals	TMT.ASX	Murchison Technology Metals	Development	Indicated & Inferred	153.7	0.84	1.4	ASX Announcement 07/11/2022 Integration Study – ASX Announcement 05/08/2022
Richmond Vanadium	RVT.ASX (Proposed)	Richmond-Julia Creek	Development	Measured, Indicated & Inferred	1,838	0.36	1.82	HRZ – ASX Announcement 27/10/2020



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